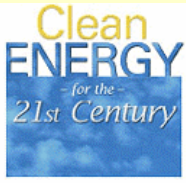


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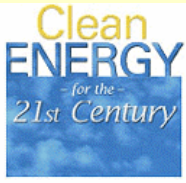
Energy Future / Sustainable Future

Jim Powell
Director
Atlanta Regional Office



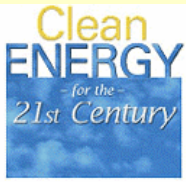
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- Two scenarios
- Business as usual
 - “What is past is prologue”
- Business as **unusual**
 - “Taking the green path to energy efficiency”
- “Where do we go from here?”



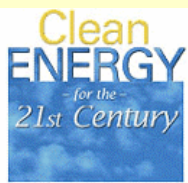
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- Business as usual
 - Oil Embargo of 1973
 - Supply disruptions over past 25 years
 - Energy appetite continues to grow
 - Oil imports are at their highest level
 - Climate changing due to global warming
 - Air pollution in major urban areas
 - Poor land planning choices = SPRAWL!



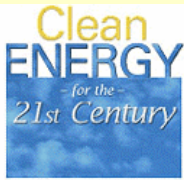
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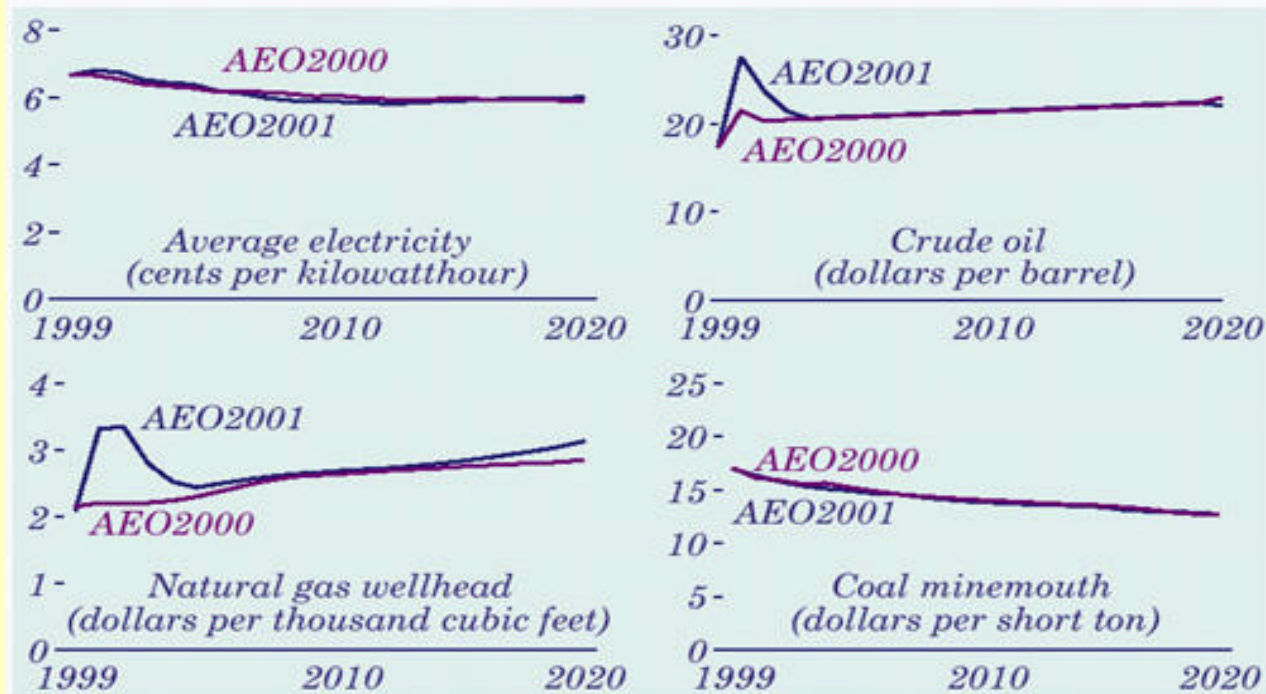
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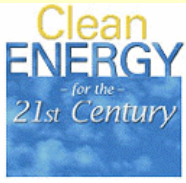


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*Figure 1. Fuel price projections, 1999-2020:
AEO2000 and AEO2001 compared (1999 dollars)*

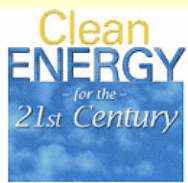


Projections: Energy Information Administration, *Annual Energy Outlook 2000*, DOE/EIA-0383(2000) (Washington, DC, December 1999). **AEO2001 projections:** Table A1.



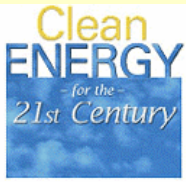
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- Business as usual scenario
 - World oil supply and prices impacts
 - U.S. natural gas prices rising
 - Transition to restructured regional electricity markets; “More California’s?”
 - Projected growth rate of U.S. economy
 - **Energy use is tied to environmental impacts**



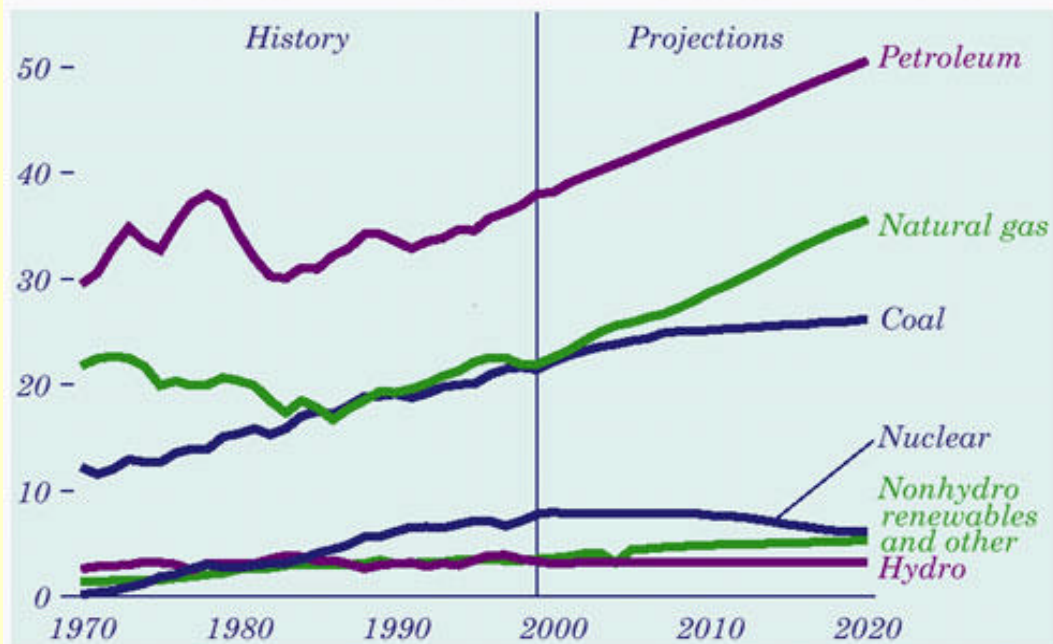
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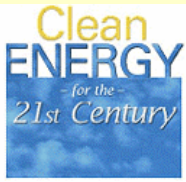


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*Figure 2. Energy consumption by fuel, 1970-2020
(quadrillion Btu)*

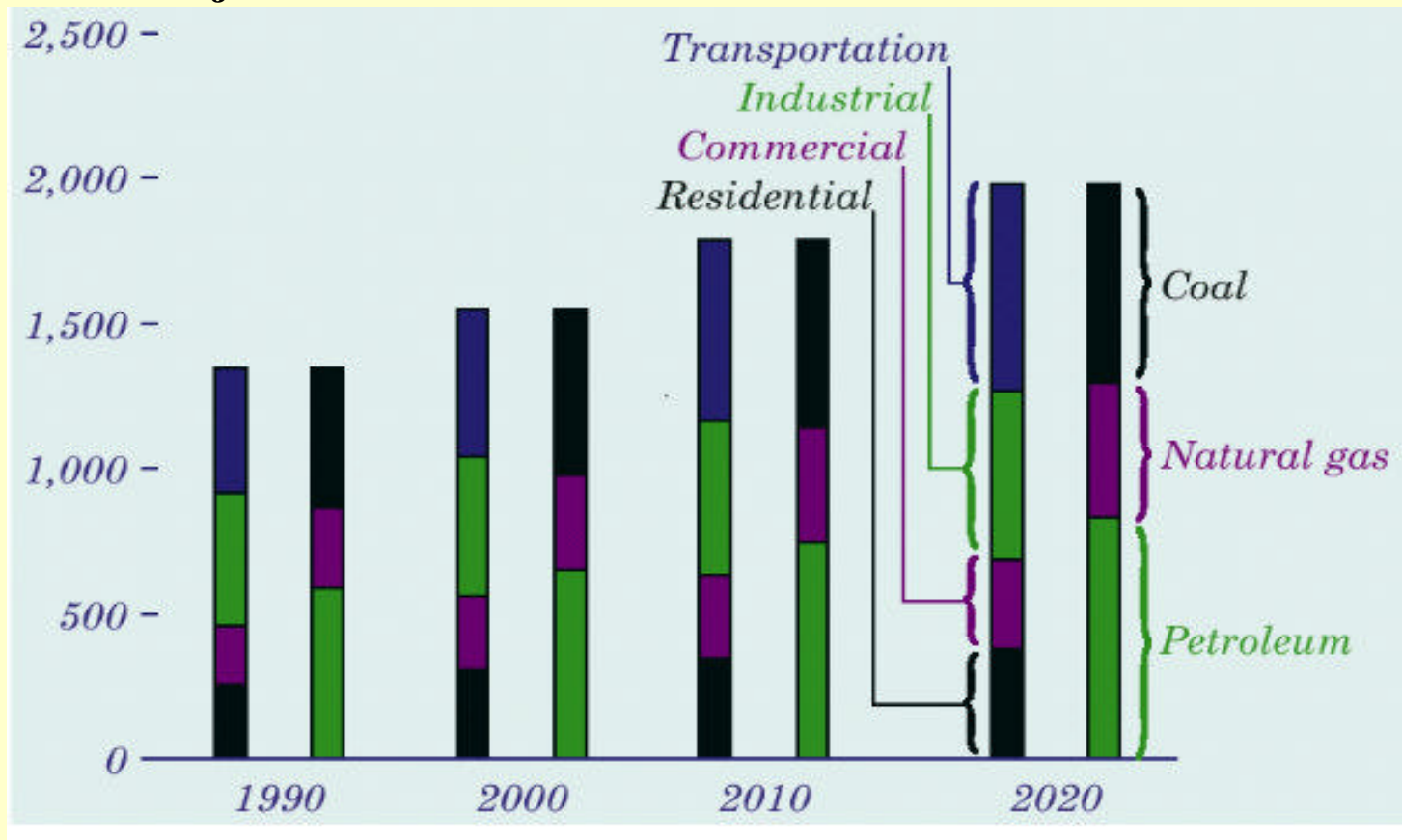


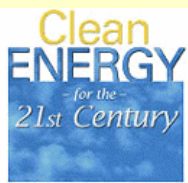
History: Energy Information Administration, *Annual Energy Review 1999*, DOE/EIA-0384(99) (Washington, DC, July 2000). **Projections:** Tables A1 and A18.



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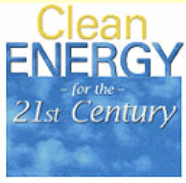
Projections of Carbon Emissions – Millions Metric Tons





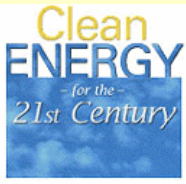
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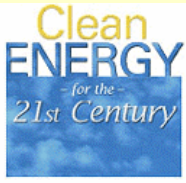
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- Consumption
 - Total for the U.S.
 - Residential
 - Commercial
 - Industrial
 - Transportation
- Energy Efficiency



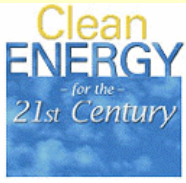
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- Business as **unusual**
 - Paradigm shift for U.S. economy
 - Movement away from fossil fuel base
 - Active implementation of market-ready renewable energy technologies
 - Accelerated support for near-ready technologies
 - Increased purchases across all EUSs by all elements/levels of government



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- “Where Do We Go From Here?”
 - Determine where ‘here’ is
 - Decide on short and long term goals
 - Consciously plan on a ‘green path’
 - Keep track of milestones
 - Celebrate achievement of them and use this as reinforcement to push on



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<http://www.energy.gov>

<http://www.eren.doe.gov/femp/index.html>